## IN THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

## Listing of Claims:

 (Currently Amended) A lithium secondary battery comprising: a positive electrode including a positive electrode active material; a negative electrode including a negative electrode active material; and a non-aqueous electrolyte,

wherein said positive electrode active material comprises at least one lithium-containing composite oxide represented by the following general formula:

$$\text{Li}_{\mathbf{v}} M^{1}_{1-\mathbf{v}} M^{2}_{\mathbf{v}} O_{2}$$

where  $M^1$  and  $M^2$  are different elements,  $M^1$  is Ni or Co,  $M^2$  is at least one selected from Ni. Co, Mn. Mg. and Al.  $1 \le x \le 1.05$ . and  $0 \le y \le 0.7$ .

said negative electrode active material comprises at least one selected from the group consisting of silicon, tin, a silicon-containing alloy, and a tin-containing alloy, [[and]]

at least one of said positive electrode, said negative electrode, and said non-aqueous electrolyte includes an organic peroxide, wherein said organic peroxide is included in said non-aqueous electrolyte;

said organic peroxide accounts for 0.1 to 5 % by weight of said non-aqueous electrolyte, and

said organic peroxide is at least one selected from the group consisting of hydroperoxides, dialkylperoxides, peroxy esters, diacylperoxides, peroxyketals, and ketone peroxides.

## 2-4. (Cancelled)

- (Currently amended) The lithium secondary battery in accordance with claim 1, wherein said organic peroxide is further included in said negative electrode.
- (Original) The lithium secondary battery in accordance with claim 1, wherein said negative electrode active material comprises a silicon-containing alloy.
- 7. (Original) The lithium secondary battery in accordance with claim 6, wherein said silicon-containing alloy comprises: a solid solution including silicon and at least one transition metal element selected from the group consisting of Ti, Ni, Co, Fe, and Cu; or an alloy including silicon and at least one intermetallic compound selected from the group consisting of TiSi<sub>2</sub>, TiSi, CoSi<sub>2</sub>, CoSi, FeSi<sub>2</sub>, FeSi, NiSi<sub>2</sub>, NiSi, and Cu<sub>3</sub>Si.
- (Original) The lithium secondary battery in accordance with claim 7, wherein said intermetallic compound is TiSi<sub>2</sub>.
- (New) The lithium secondary battery in accordance with claim I, wherein said organic peroxide is further included in said positive electrode.
- (New) The lithium secondary battery in accordance with claim 5, wherein said organic peroxide is further included in said positive electrode.

11. (New) A lithium secondary battery comprising:

a positive electrode including a positive electrode active material;

a negative electrode including a negative electrode active material; and

a non-aqueous electrolyte,

wherein said positive electrode active material comprises at least one lithium-containing composite oxide represented by the following general formula:

$$\text{Li}_{x}\text{M}^{1}_{1-y}\text{M}^{2}_{y}\text{O}_{2}$$

where  $M^1$  and  $M^2$  are different elements,  $M^1$  is Ni or Co,  $M^2$  is at least one selected from Ni, Co, Mn, Mg, and Al,  $1 \le x \le 1.05$  and  $0 \le y \le 0.7$ ,

said negative electrode active material is at least one selected from the group consisting of silicon, tin, a silicon-containing alloy, and a tin-containing alloy,

said negative electrode includes an organic peroxide, and

said organic peroxide is at least one selected from the group consisting of hydroperoxides, peroxyketals, and ketone peroxides,

12. (New) A lithium secondary battery comprising:

a positive electrode including a positive electrode active material;

a negative electrode including a negative electrode active material; and

a non-aqueous electrolyte,

wherein said positive electrode active material comprises at least one lithium-containing composite oxide represented by the following general formula:

$$Li_xM^1_{1-v}M^2_vO_2$$

where  $M^1$  and  $M^2$  are different elements,  $M^1$  is Ni or Co,  $M^2$  is at least one selected from Ni, Co, Mn, Mg, and Al,  $1 \le x \le 1.05$  and  $0 \le y \le 0.7$ ,

said negative electrode active material is at least one selected from the group consisting of silicon, tin, a silicon-containing alloy, and a tin-containing alloy,

said positive electrode includes an organic peroxide, and said organic peroxide is at least one selected from the group consisting of hydroperoxides, peroxyketals, and ketone peroxides.